

Inventor:—PETER BARTON.



Date of filing Complete Specification : Sept. 2, 1957.

Application Date : Sept. 4, 1956. No. 26968/56.

Complete Specification Published : March 18, 1959.

Index at Acceptance:—Class 20(2), S3.

International Classification:—E04g.

## COMPLETE SPECIFICATION.

## Improvements relating to Couplings or Fastenings for Scaffolding and like Poles.

We, B. C. BARTON & SON LIMITED, of Hainge Road, Tividale, Tipton, in the County of Stafford, a British Company, do hereby declare the invention, for which we pray that a patent may be granted to us, and the method by which it is to be performed, to be particularly described in and by the following statement:—

The present invention has reference to couplings or fastenings for scaffolding and like poles, and has for its object to provide such a device which is particularly satisfactory and efficient in use.

According to the present invention there is provided a fastening for a scaffolding or like pole comprising a two-limbed socket between the limbs of which the pole may be placed and maintained by virtue of a hook shaped member adapted to be engaged with a slot in one limb of the socket by an approach towards its outer face so that its extreme end impinges on the pole, the said member remote from its hook being of inverted cup formation and thereby flanged to bear upon the pole and also being provided with an aperture for engagement by the extremity of a bolt with co-operative nut, the head of which bolt engages with the other limb of the socket.

The head of the bolt may be of T formation and may be engaged with a plain slot in the limb of the socket and rotated through a right angle for effective location. Two outwardly facing integral sockets may be employed each with its complementary hook member and bolt.

In order that the invention may be clearly understood and readily carried into practice reference may be had to the appended explanatory drawings in which:—

[Price 3s. 6d.]

Fig. 1 illustrates a scaffolding coupling constructed in accordance with the present invention;

Fig. 2 illustrates the fastening belt; and

Fig. 3 illustrates the hook shaped arm forming part of the clamp.

In a convenient embodiment of the present invention the socket may be stamped or forged from heavy gauge metal to a U formation one limb  $a^1$  of which is shorter than the other limb  $a^2$ . The short limb  $a^1$  has a horizontal slot  $a^3$  and the longer limb is provided with side flanges  $a^4$  and also with a vertical slot  $a^5$ . The member  $b$  is provided with a hook shaped extremity  $b^1$  and this member is engaged with the slot  $a^3$  in the short limb  $a^1$  by an approach towards its outer face and the said member  $b$  at its remote extremity is of inverted cup formation  $b^2$  involving curved side flanges which engage an inserted pole or tube  $c$  and there is also an end flange  $b^3$  on the hook shaped member. This remote extremity of the hook shaped member is also provided with a circular aperture  $b^4$ . A fastening bolt  $d$  (Figure 2) has a T shaped head  $d^1$  as shown the remote extremity or end of the shank being screw threaded at  $d^2$  for reception of a nut  $e$  and washer when desired. The head  $d^1$  of this T shaped bolt is passed through the vertical slot  $a^5$  in the longer limb  $a^2$  and rotated to a position at right angles to its slot and the stem of the bolt is passed through the aperture  $b^4$  in the hook shaped member  $b$  and the nut  $e$  and washer (when desired) placed in position. The assembly is placed round the pole or tube  $c$  by initially engaging the pole with the open U shaped socket  $a^1, a^2$  either laterally or by sliding and the hook shaped member  $b$  is

then engaged with the short limb  $a^1$  by an approach towards its outer face, so that the extreme end  $b^5$  protrudes beyond the slot  $a^1$ , following which the nut  $e$  on the fastening bolt is tightened to bring the upper part  $b^2$  of the hook shaped limb  $b$  effectively down on to the pole or tube  $c$  to locate it. During this tightening operation the extreme end  $b^5$  of the hook shaped member  $b$  is designed or adapted so as to impinge on the tube or pole  $c$  to effectively bind it in its socket.

As previously intimated the clamp may be of a dual character having two outwardly facing U shaped sockets each with complementary hook shaped members and fastening bolts.

#### WHAT WE CLAIM IS:—

1. A fastening for a scaffolding or like pole comprising a two-limbed socket between the limbs of which the pole may be placed and maintained by virtue of a hook shaped member adapted to be engaged with

a slot in one limb of the socket by an approach towards its outer face so that its extreme end impinges on the pole, the said member remote from its hook being of inverted cup formation and thereby flanged to bear upon the pole and also being provided with an aperture for engagement by the extremity of a bolt with co-operative nut, the head of which bolt engages with the other limb of the socket.

2. A fastening as claimed in Claim 1 wherein the head of the bolt is of T formation and is engaged with a plain slot in the limb of the socket and rotated through a right angle for effective location.

3. A fastening as described and/or illustrated.

LEWIS W. GOOLD & CO.,  
Chartered Patent Agents,  
5 Corporation Street,  
Birmingham 2,  
Agents for Applicants.

#### PROVISIONAL SPECIFICATION.

#### Improvements relating to Couplings or Fastenings for Scaffolding and like Poles.

We, B. C. BARTON & SON LIMITED, of Hainge Road, Tividale, Tipton, in the County of Stafford, a British Company, do hereby declare this invention to be described in the following statement:—

The present invention has reference to couplings or fastenings for scaffolding and like poles, and has for its object to provide such a device which is particularly satisfactory and efficient in use.

According to the present invention there is provided a fastening for a scaffolding or like pole comprising a two-limbed socket between the limbs of which the pole may be placed and maintained by virtue of a hook shaped member adapted to be engaged with a slot in one limb of the socket by an approach from its outer face, the said member remote from its hook being flanged to co-operate with the pole and provided with an aperture for engagement by the extremity of a bolt with co-operative nut, the head of which bolt co-operates with the other limb of the socket.

The head of the bolt may be of T formation and may be engaged with a plain slot in the limb of the socket and rotated for effective location. Two outwardly facing integral sockets may be employed each with its complementary hook member and bolt.

In a convenient embodiment of the present invention the socket may be stamped up or

forged from heavy gauge metal to a U formation one limb of which is slightly shorter than the other. The short limb has a horizontal slot and the longer limb is provided with side flanges which turn outwardly at its upper part and is provided with a vertical slot. The co-operative member is provided with a hook shape extremity and this member is engaged with the slot in the short limb by an approach from its outer face and the said member at its remote extremity is of more or less inverted cup formation involving curved side flanges which co-operate with an inserted pole or tube and there is also an end flange on the hook shaped member. This remote extremity of the hook shaped member is also provided with a circular aperture. A bolt is employed the main part of which is preferably of square section and the said bolt has a T shaped head the remote extremity or end of the shank being screw threaded for reception of a nut and washer. The head of this T shaped bolt is passed through the vertical slot in the longer limb and rotated at a position at right angles to its slot and the stem of the bolt is passed through the aperture in the hook shaped member and the nut and washer placed in position. The assembly is placed round the pole or tube by initially engaging the pole with the open U shaped socket either laterally or by sliding

and the hook shaped member is then engaged with the short limb by an approach from its outer face, following which the nut on the bolt is tightened to bring the upper  
5 part of the hook shaped limb effectively down on to the pole or tube to locate it. During this tightening operation the extreme end of the hook shaped member may be designed or adapted so as to impinge on the  
10 tube or pole to effectively bind it in its socket.

As previously intimated the clamp may be of a dual character having two outwardly facing U shaped sockets each with complementary hook shaped members and 15 fastening bolts.

LEWIS W. GOOLD & CO.,  
Chartered Patent Agents,  
5 Corporation Street,  
Birmingham 2,  
Agents for Applicants.

Abingdon : Printed for Her Majesty's Stationary Office, by Burgess & Son (Abingdon), Ltd.—1959.  
Published at The Patent Office, 25, Southampton Buildings, London, W.C.2,  
from which copies may be obtained.

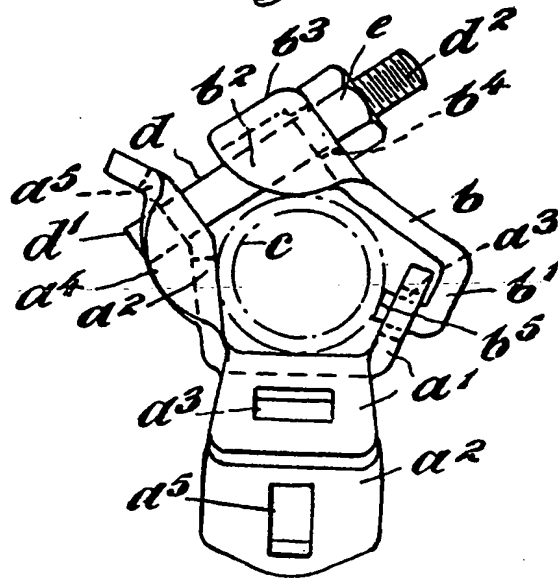
810,620

COMPLETE SPECIFICATION

1 SHEET

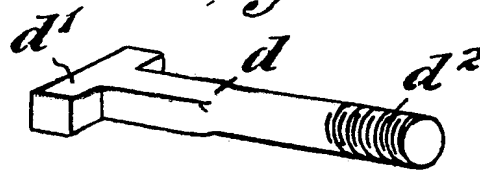
This drawing is a reproduction of the Original on a reduced scale.

*Fig. 1.*



*all balls with  
2 parts, also  
in 1000*

*Fig. 2.*



*Fig. 3.*

